

WHAT IS CLAIMED IS:

1. An audio/video IP camera, comprising:

a digital video unit for outputting digital video data captured by the camera;

a digital audio unit for outputting digital audio data captured by the camera;

5 a system control user interface for providing user with a set of instructions

that controls the tilting, panning and focusing of the camera; and

a digital audio/video processor connected to the digital video unit, the digital audio unit and the system control user interface, wherein the digital audio/video processor further includes:

10 a real-time transport protocol connected to a compression module and the digital audio unit for processing the digital video data and the digital audio data and producing synchronous digital audio/video data.

2. The camera of claim 1, wherein the digital audio/video processor further includes a local area network interface connected to the real-time transport protocol and a signaling module such that synchronous digital audio/video data can be transmitted to remote terminals through the network interface.

3. The camera of claim 2, wherein the local area network interface and the digital audio/video camera are connected so that synchronous audio/video data can be registered by the digital audio/video camera through the network.

20 4. The camera of claim 2, wherein the local area network interface and a computer terminal are connected together so that the synchronous digital audio/video data can be broadcast through a network browser.

5. The camera of claim 1, wherein the digital audio unit further includes a microphone, an audio amplifier, an audio codec and a speech compression module.

6. The camera of claim 1, wherein the digital video unit further includes a digital signal processor.

7. The camera of claim 1, wherein the audio/video IP camera further includes an audio/video network intercom.

8. The camera of claim 7, wherein the audio/video network intercom is connected to an indoor display monitor through a network connection port.

9. The camera of claim 1, wherein the digital audio/video processor further includes a compression module connected to the digital video unit so that digital video data provided by the digital video unit is compressed.

10. The camera of claim 1, wherein the digital audio/video processor further includes a signaling module connected to the system control user interface for providing control instructions to the system control user interface and controlling the transmission of digital video data and digital audio data.

11. An audio/video IP camera, comprising:

a digital video unit for outputting digital video data;

a digital audio unit for outputting digital audio data;

a system control user interface for outputting control instructions; and

a digital audio/video processor, comprising:

a real-time transport protocol for receiving the digital video data and the digital audio data; and

a local area network interface.

12. The camera of claim 11, wherein the local area network interface connects with a digital audio/video camera so that synchronized digital audio/video data from the digital audio/video camera can be stored via a network.

13. The camera of claim 11, wherein the local area network interface connects with a computer terminal so that the synchronized digital audio/video data can be broadcast via a network browser.

14. The camera of claim 11, wherein the digital audio unit further includes a microphone, an audio amplifier, an audio codec and an audio compression module.

15. The camera of claim 11, wherein the digital video unit further includes a digital signal processor and a video compression module.

16. The camera of claim 11, wherein the audio/video IP camera further includes an audio/video network intercom.

17. The camera of claim 16, wherein the audio/video network intercom is connected to an indoor display monitor through a hub.

18. An audio/video IP camera recording method, comprising the steps of:
feeding video data and audio data into a transport protocol unit so that the video data and the audio data are synchronously processed to produce real-time audio/video data; and

transmitting the real-time audio/video data to a local area network interface so that the real-time audio/video data can be transmitted to remote locations through a network.

19. The method of claim 18, wherein the transport protocol includes a real-time transport protocol.

20. The method of claim 18, wherein the real-time audio/video data may be broadcast via a web browser.